



# Webinar 1: Overview and Guidelines for Teams

October 31, 2012

**Disclaimer:** The information presented in this webinar is not intended to amend, modify or substitute details provided in the SunShot Prize rules document released on September 12, 2012. Information presented in this webinar should be used in conjunction with the official rules and guidance located at:

<u>eere.energy.gov/solar/sunshot/prize.html</u>



#### Agenda

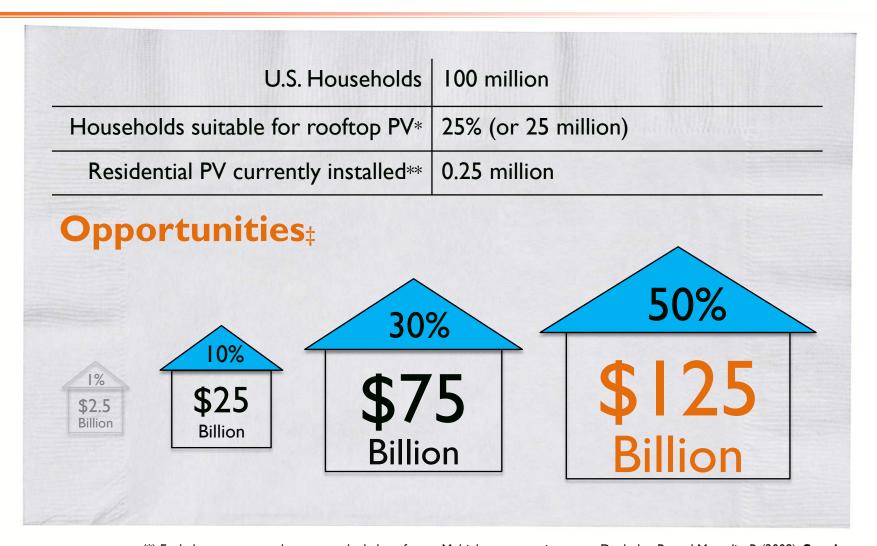
- Section 1: Motivation
- Section 2: Goals & Target
- Section 3: Eligibility
- Section 4: Installation Specifications
- Section 5: Participation
- Section 6: Questions & Answers

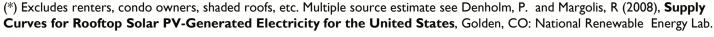


**Section I: Motivation** 

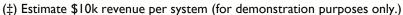


#### **Market Potential**



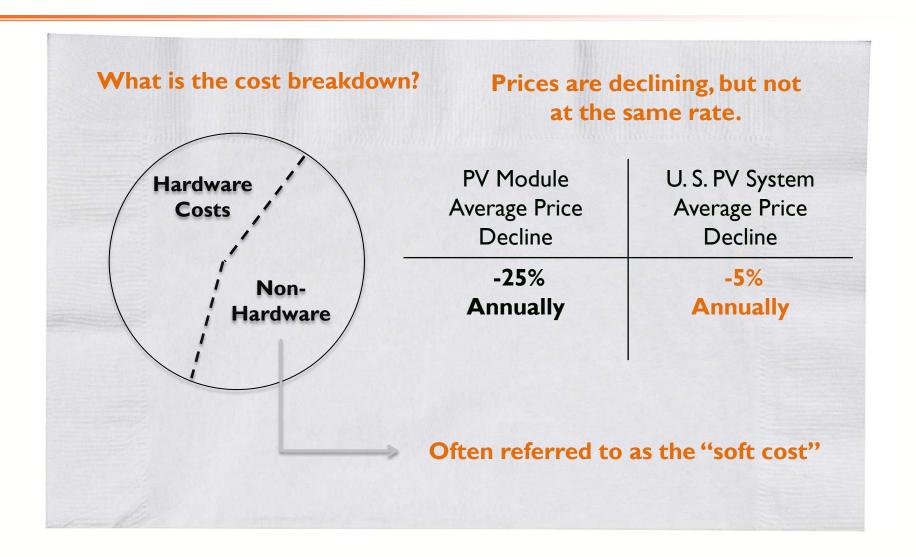


(\*\*) Multiple source estimate see Seel, J., G. Barbose and R. Wiser (2012), **Why Are Residential PV Prices in Germany So Much Lower than in the United States,** Berkeley, CA: Lawrence Berkeley National Laboratory.



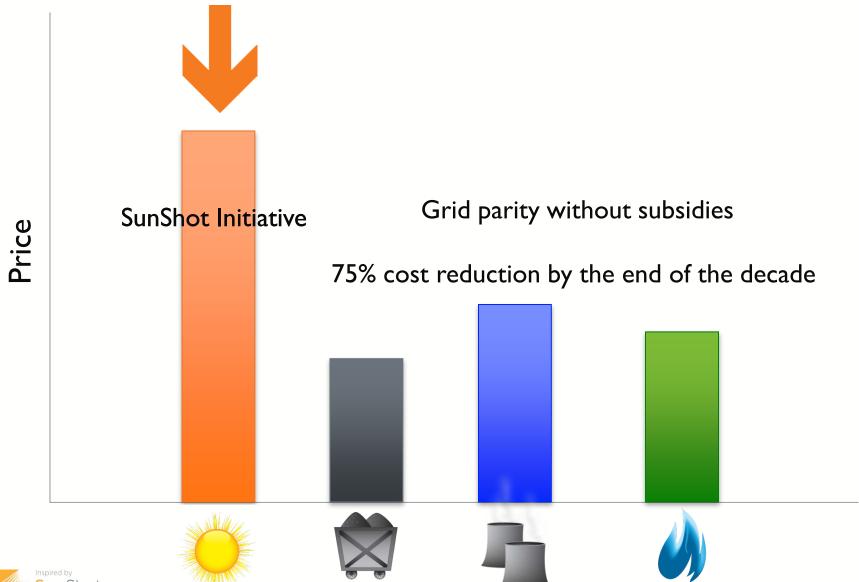


#### **Costs and Trends**





#### **SunShot Initiative**

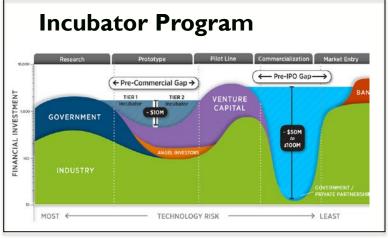




#### **SunShot: Tackling Soft Costs**



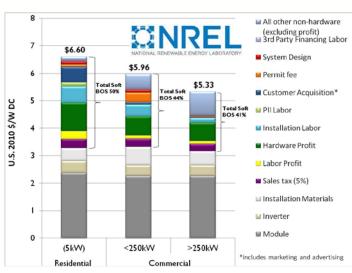






#### Solar Instructor Training Network



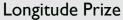




# Why a Prize?

Prizes inspire us to reach new heights







Orteig Prize



DARPA Grand Challenge



Ansari X Prize

- Setting and meeting ambitious goals
- Not prescriptive of a specific approach
- Challenges a new class of innovators

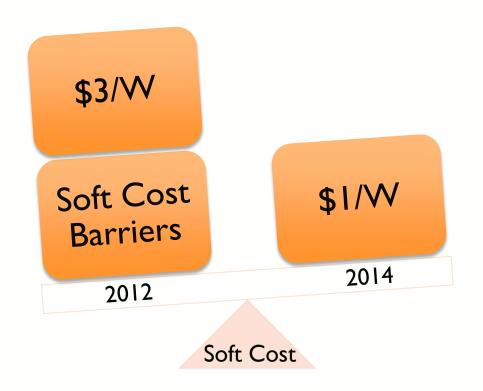


## Section 2: Goals & Target



# Prize Goals: Tipping the Scale

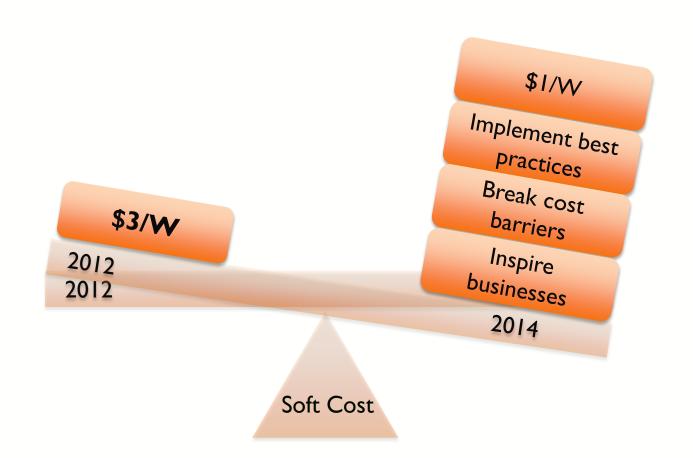
#### Soft costs are weighing us down





#### Prize Goals: Tipping the Scale

Let's tip the scale making it faster, cheaper and easier to install solar





### **Target**

#### **Prize**

Phase I + Phase II

5,000 + I,000

Installations







Total Prize Awards



Prize Winner	Phase I	Phase II
First Team	\$5,000,000	\$2,000,000
Second Team	\$1,500,000	\$500,000
Third Team	\$750,000	\$250,000



**Section 3: Eligibility** 



#### Team Eligibility

#### CI. Team Lead

- Single legal entity
- In good standing
- Valid bank account for U.S. dollar transactions
- Insured

# C2. Active Members

 Those with substantial team contributions must be named as team members

#### C3. U.S. Only

 Must be a recognized U.S. entity or foreign entity with a valid U.S. registration

# C4. U.S. Local Authorities

May be a team member but not a team lead



### Team Eligibility

#### C5. Insurance

- Team lead must have general liability insurance with a min. of \$1 million/incident and a \$5 million umbrella
- Team members must have Federal government indemnification

#### C6. Risk Bearing

 Team members must agree to bear all risks and hold the Federal government free against all claims

#### C7. Content

 All documents must be in English and monetary figures in U.S. dollars

# C8. Teaming Agreement

 Each member must be a signatory of a teaming agreement that establishes and defines relationships, responsibilities and resolution strategies for any potential conflict



## Section 4: Installation Specifications



#### **Installation Specifications**

Business Sustainability

Financial Specifications

Technical Specifications



#### Technical Specifications, Part I

Number of Installations

Phase 1: 5.000

Phase 2: 1,000

Rooftop Systems

2-15 kW/grid connection

Rooftopmounted on residential, commercial, and/or public structure Eligible Systems

Completed on or after the registration date

Continuous performance period

Located in designated performance regions

Permitting & Inspection

Permit and inspection completed

Meets applicable all laws/rules

Interconnection

Grid connected

Meets all local utility rules



#### **Technical Specifications, Part 2**

Performance Projection and Monitoring

Expected kWh evaluated

Actual kWh

Performance deviation ≤ 25%

**Product Safety** & Certification

Components certified at UL 1703 IEC 61730 or comparable

Warranty Periods

20-year manufacturer performance

10-year system workmanship

I-year installer warranty

Operations & Maintenance Contracts

Valid O&M

contract\*

Insurance

For installations

For all workers including volunteers

Extended Insurance\*



#### **Soft Cost Equation**

#### **Total Price**

# For Host-Owned Systems:

The total pre-subsidy price paid by the customer

## For Third-Party Owned Systems:

The maximum of the FMV and NPV based on pre-subsidy values

# Hardware Cost

The value recorded on the bill of sale in an arms-length transaction or an equivalent arms-length transaction

#### Soft Cost

Permitting

Installation

Interconnection

Customer Acquisition

• • •



#### **Financial Specifications**

Average Soft Cost:

\$1/W

% of allowable installs with soft cost values exceeding:





#### **Demonstrating Business Sustainability**

Demonstrate that the \$1/W soft costs target can be repeated using two indicators:





#### **Subsidies?**

#### Owner Subsidies

May claim subsidies and rebates

Total Sales Prices and Hardware Costs must be pre-subsidy values

Subsidy cascade filings must be available for audits

#### Subsidy Sharing\*

Should share a portion of claimed subsidies and rebates with off-takers

Total disbursements to off-takers are a sign of confidence in the business model

A portion by definition is greater than zero. No minimum portion requirement.



### **Section 5: Participation**



# **Participation Process**

I. Registration	Start: 09/12/12 End: 10/31/14	
2. Pre-Submission Assessment	Start: 12/31/12 End: 11/30/14	
3. Phase I Submission	Start: 12/31/12 End: 12/31/14	
4. Phase I Evaluation	Start: After first complete submission	
5.Audit	Start: After first evaluation	
6. Phase I Results & Awards	Expected: Summer 2015	
7. Phase II Submission	Start: Within 12 months of Phase I Submission	
8. Phase II Evaluation	Start: After first Phase II submission	
9.Phase II Results & Awards	Start: Within 12 months of Phase I Submission	



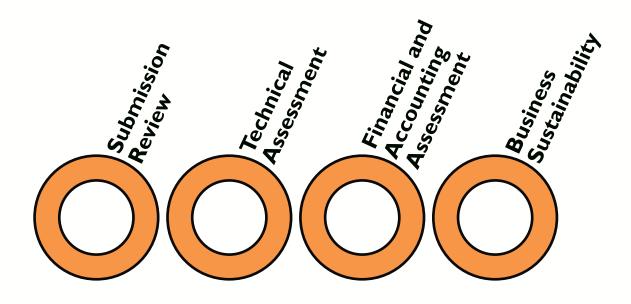
#### How to Sign up

- I. Visit SunShot Prize webpage eere.energy.gov/solar/sunshot/prize.html
- 2. Look for "Getting Started"
- 3. Click on "register to participate"
- 4. Look for FOA # DE-FOA-0000766 in EERE's Funding Exchange
- 5. Find the link
- 6. Create an account

Stay Updated
Sign up for our Newsletter
<a href="mailto:energy.gov/sunshot">energy.gov/sunshot</a>



#### **Evaluating Winners**



Evaluation Review Committee Determines Winners

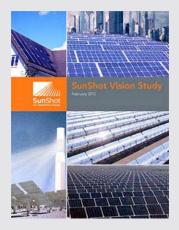


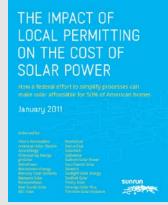


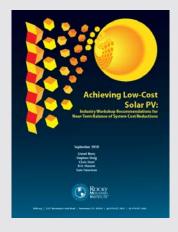
# **Q & A Session**

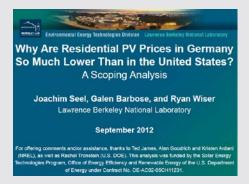
Please send additional questions or comments to: sunshot.prize@ee.doe.gov

#### Resources









- SunShot Vision Study: U.S. Department of Energy, February 2012
- The Impact of Local Permitting on the Cost of Solar Power: SunRun, January 2011
- Achieving Low-Cost Solar PV: Industry Workshop Recommendations for Near-Term
   Balance of System Cost Reductions: Rocky Mountain Institute, September 2010
- Benchmarking Non-hardware Balance of System Costs for PV Systems in the United
   States using a Bottom-up Approach: National Reviewable Energy Laboratory, May 2012
- Why Are Residential PV Prices in Germany So Much Lower Than in the United States? A
   Scoping Analysis: Lawrence Berkeley National Laboratory, September 2012





### **Thank You**

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